

What is claimed is:

1. A method of detecting orientation of an optical disk drive, comprising the steps of:

driving a first force on a movable optical pick up head of the optical disk drive for a preset period;

measuring a first moving distance of the movable optical pick up head;

driving a second force on the movable optical pick up head for the ^{Preset} time period, wherein the second force and the first force have opposite direction but same amplitude;

measuring a second moving distance of the optical unit; and

determining the difference between the first and second moving distances;

determining the optical disk drive as horizontal orientation when the difference falls within a pre-determined value.

2. The method of claim 1, further comprising determining a inclined angle and an compensating gain signal of the optical disk drive according to the difference when the difference exceeds the pre-determined value.

3. The method of claim 1, wherein the amplitude of the first force and the second force are time varied forces.